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PATENT

Coninination
55. (Amended) An implantable valve for a bodily passage of tubular 1 2 shape, comprising:

a support frame configured for expansion to conform to a wall of the bodily passage, said support frame when expanded providing a plurality of side elements each defining a path extending at least partially longitudinally along the wall and at least partially circumferentially around the wall,

a plurality of leaflets comprising an extracellular collagen matrix material, each leaflet thereof having a body extending from a wallengaging outer edge to an inner edge proximate a corresponding inner edge of at least one other leaflet of the plurality of leaflets,

the inner edges of said plurality of leaflets cooperable to define an opening therebetween to permit fluid flow in a first direction along the bodily passage, and further cooperable to engage each other sufficiently to restrict fluid flow in a second direction opposing the first direction,

the outer edge of each one of the plurality of leaflets attached along one side element of said plurality of side elements and thereby adapted to directly engage the wall of the bodily passage therearound and provide ingrowth of adjacent native tissue into the extracellular collagen matrix material.

Please add the following claims:

- 56. (New) The implantable valve of claim 55 wherein the collagen matrix 1
- 2 material comprises submucosal tissue.
- 57. (New) The implantable valve of claim 55 wherein the collagen matrix 1
- 2 material comprises small intestinal submucosa.

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58. (New) An implantable valve for a bodily passage of tubular shape, comprising:

a frame that includes a plurality of legs, each of the legs originating from a pair of bends located about a first end of the implantable valve, and extending in an opposite direction therefrom, each of the plurality of legs terminating at a second end of the implantable valve opposite the first end such that the plurality of legs generally assume a serpentine configuration along the circumference of a bodily passage when situated therein,

a plurality of leaflets, each leaflet comprising a covering that includes one or more flexible materials, the leaflet including a body that comprises a wall-engaging outer edge and an inner edge, the outer edge at least partially attached to, and reinforced by one of the plurality of legs, the outer edge and the associated leg adapted to sealingly engage the inner wall of the bodily passage,

wherein the body of the leaflet extends inward from the wall of the bodily passage and extending toward the first end of the implantable valve where it terminates at the inner edge, the body and inner edge traversing the lumen of the bodily passage when situated therein and being configured such that the leaflet is cooperable with at least one other leaflet to define an opening that permits positive flow of fluid therethrough in a first direction, while the plurality of leaflets are further adapted to trap between the leaflets and the inner wall of the bodily passage fluid flowing in a second direction opposite the first direction and seal against one another to restrict fluid flow in said second direction; and

wherein the frame is adapted to assume a plurality of configurations, a first configuration of the plurality of configurations being a generally flat plane.

- 59. (New) An implantable valve for a bodily passage of tubular shape, 1
- 2 comprising:

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91 CONTINATION PATENT
a frame that includes a plurality of legs, each of the legs originating opy from a pair of bends located about a first end of the implantable valve, and extending in an opposite direction therefrom, each of the plurality of legs terminating at a second end of the implantable valve opposite the first end such that the plurality of legs generally assume a serpentine configuration along the circumference of a bodily passage when situated therein,

a plurality of leaflets, each leaflet comprising a covering that includes one or more flexible materials, the leaflet including a body that comprises a wall-engaging outer edge and an inner edge, the outer edge at least partially attached to, and reinforced by one of the plurality of legs, the outer edge and the associated leg adapted to sealingly engage the inner wall of the bodily passage,

wherein the body of the leaflet extends inward from the wall of the bodily passage and extending toward the first end of the implantable valve where it terminates at the inner edge, the body and inner edge traversing the lumen of the bodily passage when situated therein and being configured such that the leaflet is cooperable with at least one other leaflet to define an opening that permits positive flow of fluid therethrough in a first direction, while the plurality of leaflets are further adapted to trap between the leaflets and the inner wall of the bodily passage fluid flowing in a second direction opposite the first direction and seal against one another to restrict fluid flow in said second direction; and

wherein the frame is adapted to assume a plurality of configurations, a first configuration of the plurality of configurations being a generally flat plane; and

wherein the covering includes two leaflets such that when the frame in the generally flat configuration generally assumes a diamond shape with the inner edges of the two leaflets defining a slit therebetween.

<u>Remarks</u>